## Figure 1

		TSTTGGSGIN				B.sphaericus
AVPSTQTPWG	IKSIYNDQSI	TKTTGGSGIK	VAVLDTGVYT	SHLDLAGSAE	50	TY145
AASOSTPWG	IKAIYNNSNL	TSTSGGAGIN	IAVLDTGVNT	NHPDLSNNVE	49	TA41
		TQTSGGGGIN				TA39
12.000						
****DOSVDWG	TSRVOAPAAH	NRGLTGSGVK	VAVIDTGIS*	THPDL**NIR	44	Savinase
ngbviwo	101(10111111111111111111111111111111111					
OCKDETCVLL	DIMICCTORN	GHGTHVAGTA	LADGGSDOAG	TYGVAPDADI	99	
		GHGTHVAGTV				
		GHGTHVAGSA			98	
					98	
QCKDFTVGTT	YTNNSCTDRQ	GHGTHVAGSA	LADGG1 *GNG	VIGVAPDADL	90	
					88	
GGASFVPGEP	****STQDGN	GHGTHVAGTI	AALNN**SIG	VLGVAPSAEL	88	
				- aaaaaaaa	140	
		IRHAADQATA				
		IRHVADEASR				
		IRHAGDQATA				
WAYKVLGDDG	SGYADDIAAA	IRHAGDQATA	LNTKVVINMS	LGSSGESSLI	148	
_	•		_			
YAVKVLGASG	SGSVSSIAQG	LEWAGNNG**	***MHVANLS	LGSPSPSATL	133	
SSAVNYAYSK	GVLIVAAAGN	SGYSQGTIGY	PGALPNAIAV	AALENVQQNG	199	
		SGSGSNTIGF				
		SGPKPGSIGY				
		SGPYQGSIGY				
INAMIDIM	CANTILLARION	DOLIQUEICI	I GILL VIII.			
EOMINICATION	CVITVANACCN	SGA**GSISY	DARVANANAV	CATDOM****	177	
EQAVIDATOR	GVIIVVAASGIV	SOA GSISI	1711(1711/1111)	OI II DQIN		
TVDVADVCCD	CVTCTACDVV	IQEGDIEISA	DCCCVVCTWV	NGGVNTTSGT	249	
		IQERDIEVSA				•
		IQKGDVEISA				
TYRVADFSSR	GYSWTDGDYA	IQKGDVEISA	PGAATYSTWF	DGGYATISGT	248	
		_	•	·		
*NNRASFSQY	GA******	****GLDIVA	PGVNVQSTYP	GSTYASLNGT	214	
		LSNTQLRSNL				
		LSHSQLRTEL				
SMASPHAAGL	AAKIWAQSPA	ASNVDVRGEL	QTRASVNDIL	SGNSAGSGDD	298	
SMASPHAAGL	AAKIWAQYPS	ASNVDVRGEL	QYRAYENDIL	SGYYAGYGDD	298	
	•	•				
SMATPHVAGA	AALVKOKNPS	WSNVQIRNHL	KNTA**TSLG	*******ST	254	
	_					
YASGFGFARV	Q			3	10	
YASGFGYPRV				3	11	
IASGFGFAKV					09	
FASGFGFATV					09	
NLYGSGLVNA	_				69	
MINTOCOLUM	DULIT			2	5,5	

## Figure 2

```
20
                                                               30
No: 1
                      10
a) A-O-S-V-P-Y-G-V-S-Q-I-K-A-P-A-L-H-S-Q-G-Y-T-G-S-N-V-K-V-A-V-
    A-O-S-V-P-W-G-I-S-R-V-Q-A-P-A-A-H-N-R-G-L-T-G-S-G-V-K-V-A-V-
                      40
                                           50
No:
              36
a)
   I-D-S-G-I-D-S-S-H-P-D-L-K-V-A-G-G-A-S-M-V-P-S-E-T-N-P-F-Q-D-
    L-D-T-G-I-*-S-T-H-P-D-L-N-I-R-G-G-A-S-F-V-P-G-E-P-*-S-T-O-D-
                      70
                                           80
                                                               90
No:
   N-N-S-H-G-T-H-V-A-G-T-V-A-A-L-N-N-S-I-G-V-L-G-V-A-P-S-A-S-L-
a)
    G-N-G-H-G-T-H-V-A-G-T-I-A-A-L-N-N-S-I-G-V-L-G-V-A-P-S-A-E-L-
                      100
                                           110
                                                               120
No:
   Y-A-V-K-V-L-G-A-D-G-S-G-O-Y-S-W-I-I-N-G-I-E-W-A-I-A-N-N-M-D-
a)
    Y-A-V-K-V-L-G-A-S-G-S-G-S-V-S-S-I-A-Q-G-L-E-W-A-G-N-N-G-M-H-
                      130
                                           140
                                                               150
No:
   V-I-N-M-S-L-G-G-P-S-G-S-A-A-L-K-A-A-V-D-K-A-V-A-S-G-V-V-V-V-
a)
    V-A-N-L-S-L-G-S-P-S-P-S-A-T-L-E-Q-A-V-N-S-A-T-S-R-G-V-L-V-V-
                     160
                                          170
                                                              180
No:
    A-A-G-N-E-G-T-S-G-S-S-S-T-V-G-Y-P-G-K-Y-P-S-V-I-A-V-G-A-V-
a)
    A-A-S-G-N-S-G-A-*-G-S-I-S-*-*-*-Y-P-A-R-Y-A-N-A-M-A-V-G-A-T-
No:
                      190
                                           200
    D-S-S-N-O-R-A-S-F-S-S-V-G-P-E-L-D-V-M-A-P-G-V-S-I-Q-S-T-L-P-
a)
    D-Q-N-N-N-R-A-S-F-S-Q-Y-G-A-G-L-D-I-V-A-P-G-V-N-V-Q-S-T-Y-P-
                                           230
                                                               240
No:
                      220
    G-N-K-Y-G-A-Y-N-G-T-S-M-A-S-P-H-V-A-G-A-A-A-L-I-L-S-K-H-P-N-
a)
    G-S-T-Y-A-S-L-N-G-T-S-M-A-T-P-H-V-A-G-A-A-A-L-V-K-Q-K-N-P-S-
No:
                      250
                                           260
                                                               270
    W-T-N-T-O-V-R-S-S-L-E-N-T-T-T-K-L-G-D-S-F-Y-Y-G-K-G-L-I-N-V-
a)
    W-S-N-V-O-I-R-N-H-L-K-N-T-A-T-S-L-G-S-T-N-L-Y-G-S-G-L-V-N-A-
No:
            275
a) Q-A-A-A-Q
b) E-A-A-T-R
```

a) = BPN'b) = Savinase

Figure 3

